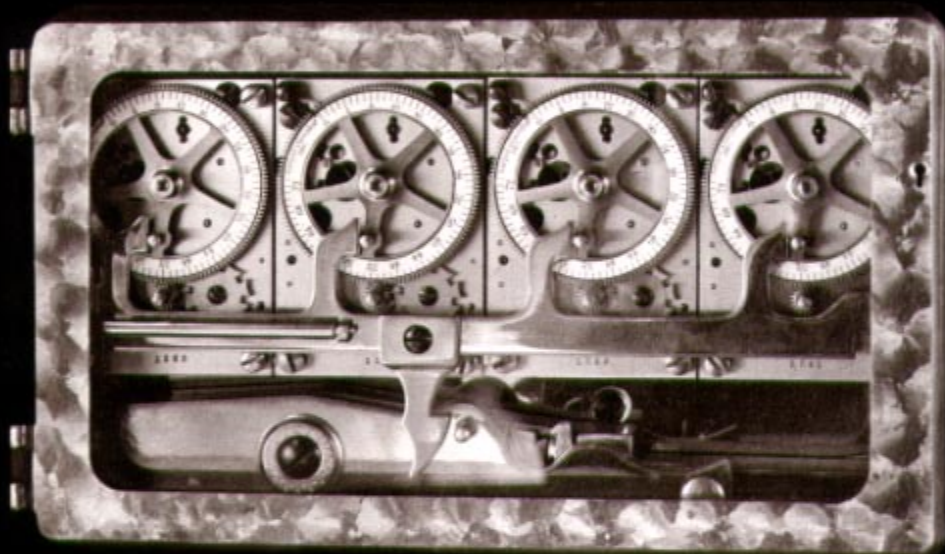


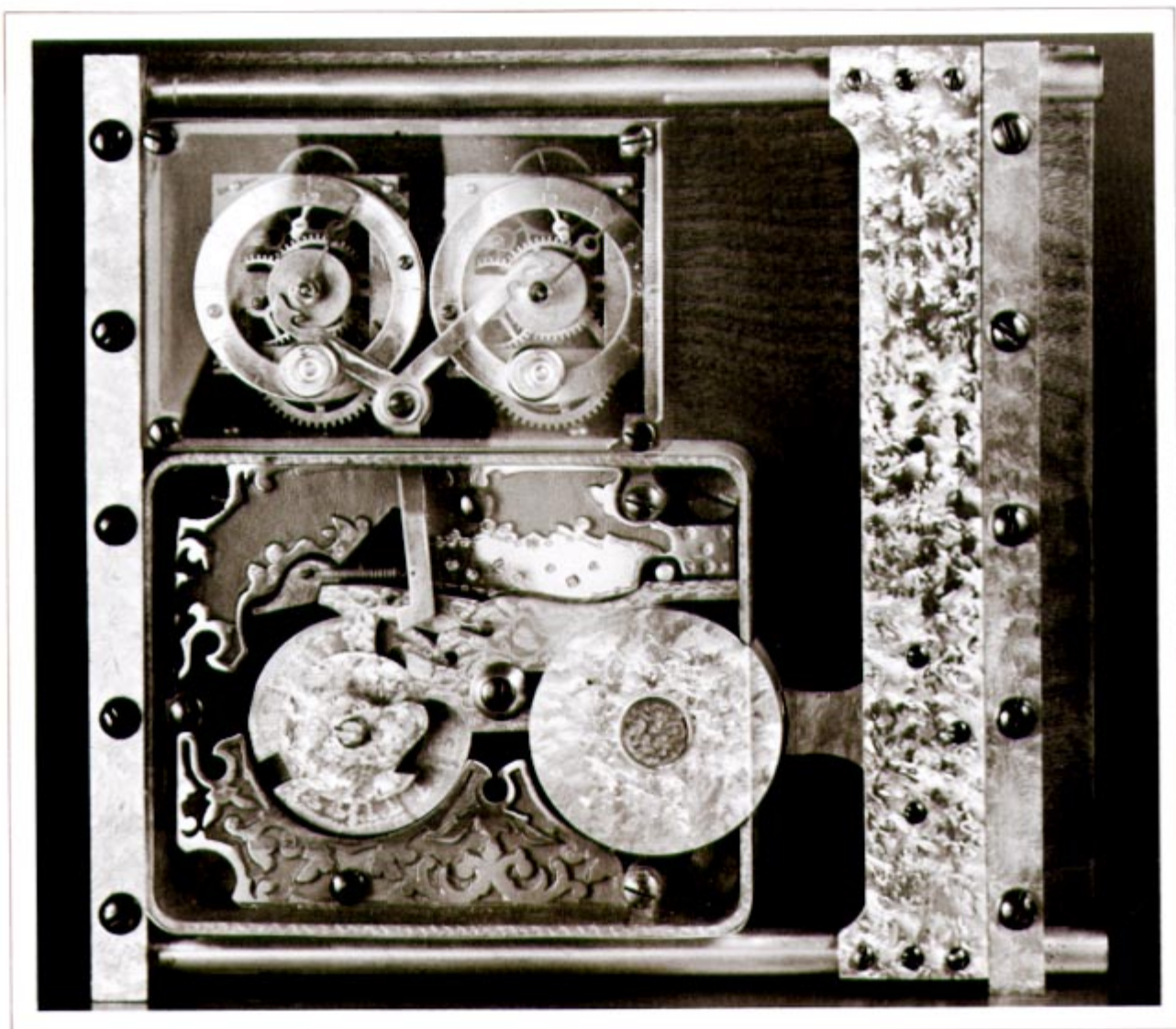
# The Time Lock.



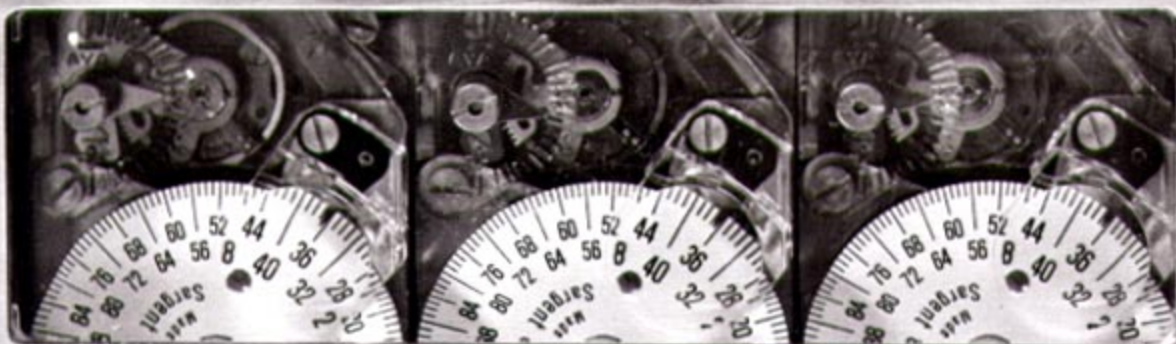


JAMES SARGENT





1873:  
James Sargent's first time lock.



**SARGENT & GREENLEAF INC.**

RELEASE  
←

— OPEN

— LOCKED



## **100 Years Later The Time Lock Has Come Home.**

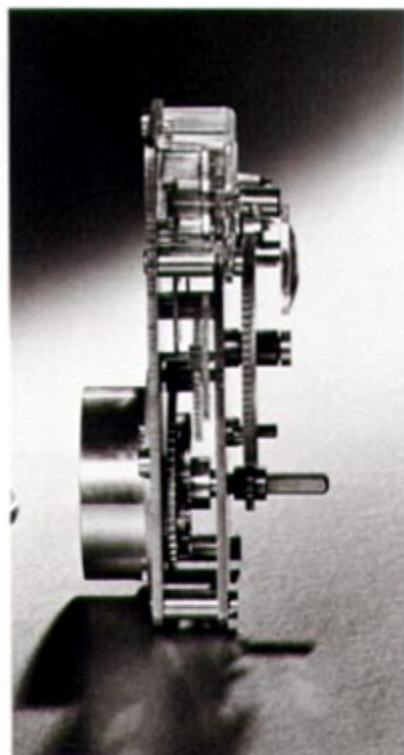
In 1873 James Sargent made another of his theories a reality. The theory: that a time mechanism could be used to prevent a safe being opened except at a predetermined time. The reality: two old eight day kitchen clocks, with only their hour hands, installed in a brass case just above a large combination lock. The lever was positioned so that the hand of the clock held it up for a specific length of time. Then, and only then, the hand moved out of the way and allowed the lever to drop into position.

Later, precision jeweled time movements were designed and manufactured in Sargent & Greenleaf's own clock department. During the years when the design of the time lock was improved and its manufacture became important, Sargent & Greenleaf was the pioneer.

James Sargent changed the dimensions of the security world with those two kitchen clocks; he drastically altered the profitability of bank robbery and he increased the safety of bank personnel. Sargent & Greenleaf continued to exert his influence after his death. With his dedication to quality, the Company has expanded safety and curtailed risk in a hundred directions. For a time we turned our energies from Time Locks to other areas where fresh and creative engineering was needed.

But now, 100 years after James Sargent's first working model, Sargent & Greenleaf has brought the Time Lock home. And, naturally, we have improved it. Once again you can look to S&G for Time Locks, confident of our design, our engineering and our manufacturing.

Welcome home.



## Time Mechanism

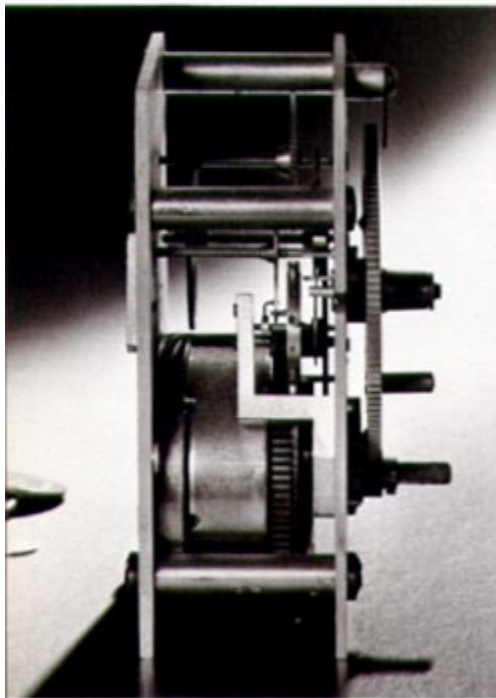
The time mechanism that Mr. Sargent used for his original Time Lock came from the kitchen. Later, Sargent & Greenleaf had a clock department in the factory. Now, S&G has gone to the time mechanism experts in Switzerland. There, the finest time movements in the world are made, now including a time movement made specifically for a time lock, specifically for Sargent & Greenleaf.

The mechanism is made of stainless steel and brass especially chosen for time movements. Thirteen jewels serve as bearings, insuring the life of the mechanism. Jewels are the life of a time mechanism because of the length of time that they will remain a perfect bearing surface.

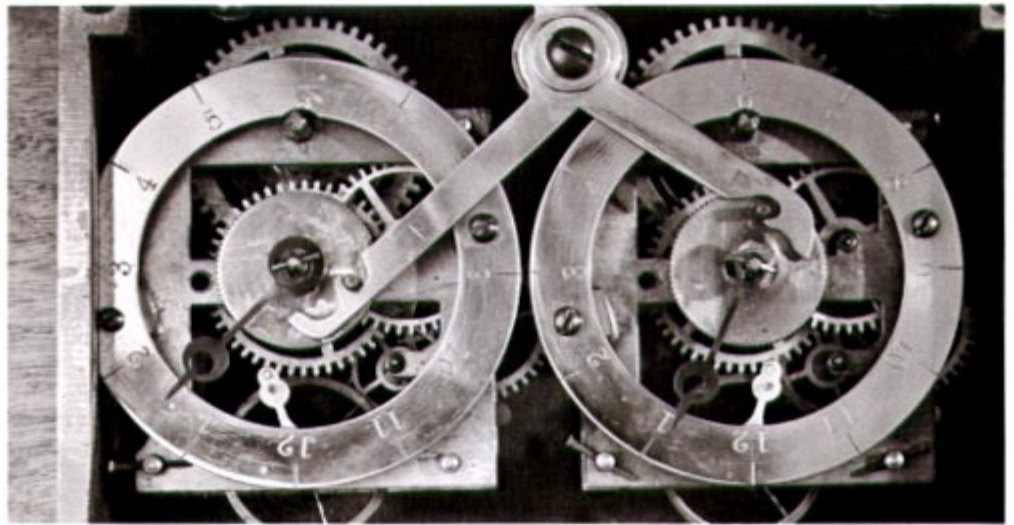
The opening time is set and the movement wound in the same turn of the key. By Federation of Swiss Watch Manufacturers' standards, the wheels must be constructed to continue working long enough after 144 hours to insure the operation of the unlocking mechanism.

The accuracy of the time movement is also insured by Federation of Swiss Watch Manufacturers' standards. Before delivery to Sargent & Greenleaf, the movements are tested on a master device to insure an accuracy rate of maximum  $\pm 1$  minute in 24 hours. If the mechanism does run slightly fast or slow, there is a micro adjustment system to provide very accurate timing.

The finest components, insured reliability, tested accuracy: the ingredients in our precision time mechanism.





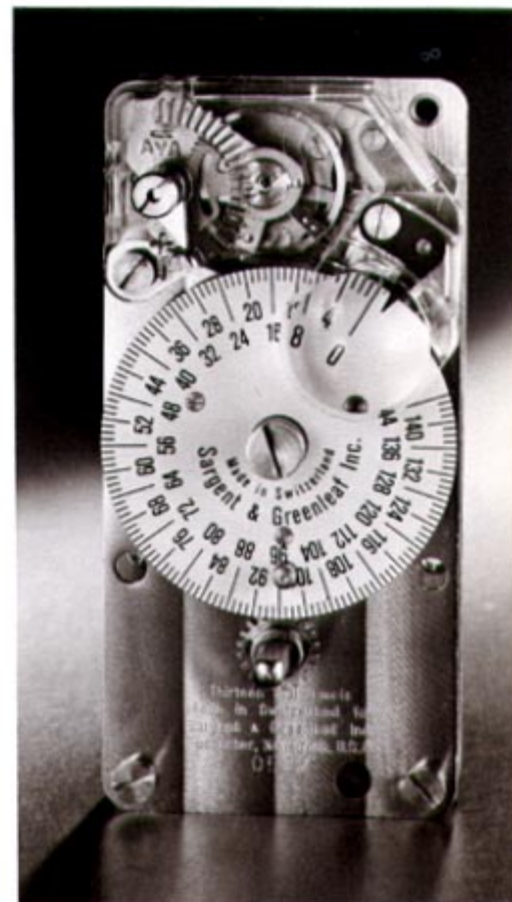


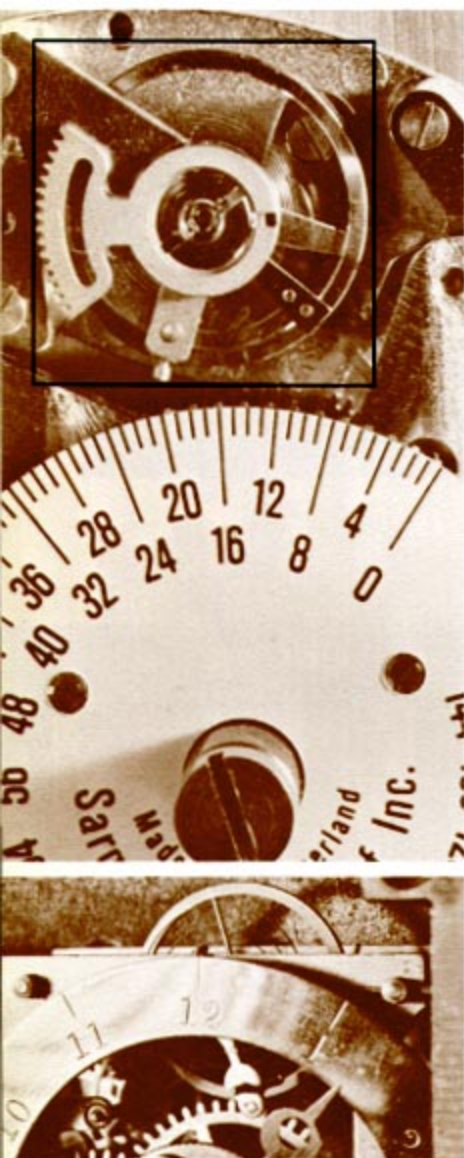
## Dial

The Sargent & Greenleaf Dial has been given consideration commensurate with its importance. It is, after all, the moving force that allows the bolt to retract.

The small pin that does the actual work is stainless steel and is welded into the wheel. Because the dial is small and moves so slowly (the actual movement is imperceptible) there is no forceful impact to wear down the surface of the pin. However, according to the Federation of Swiss Watch Manufacturers, the force transmitted by the pin must be two to three times greater than the force which is actually necessary to operate the spring of the locking mechanism.

The other important feature of the dial is the magnifier. Each dial is magnified individually and only in the specific area that needs to be visible. Because we don't magnify with a bar across all three dials, you are not confused by the distortion caused by making a round dial seem straight. You can judge quickly and accurately the distance to the open indicator.





## Reliability

The reliability of this Time Lock is guaranteed by the certification of the Federation of Swiss Watch Manufacturers. The entire mechanism is designed to work at temperatures between  $-20^{\circ}\text{C}$ . and  $+50^{\circ}\text{C}$ . Even the lubrication is chosen for its ability to withstand those variations in temperature and to maintain its consistency for the life of the mechanism. The balance wheel is electronically balanced with a maximum error of five micrograms, and the counting of the hairspring has to be made within a limit of 20 seconds per twenty-four hours, which guarantees that the time movement is accurate to within  $\pm$  one minute in twenty-four hours.

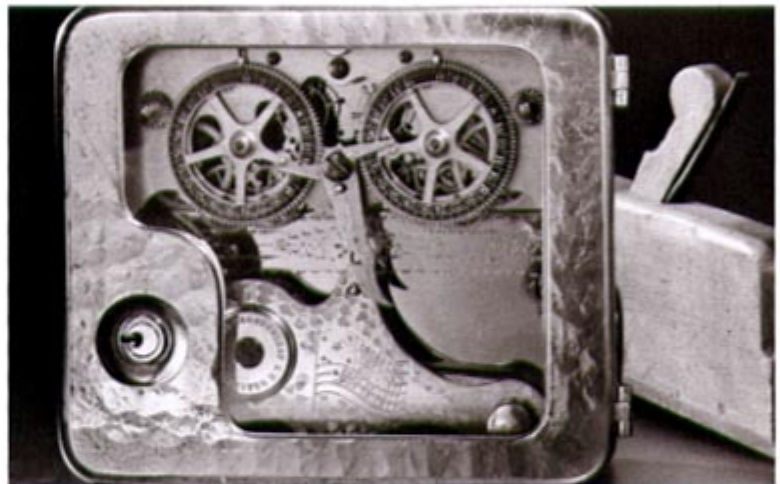
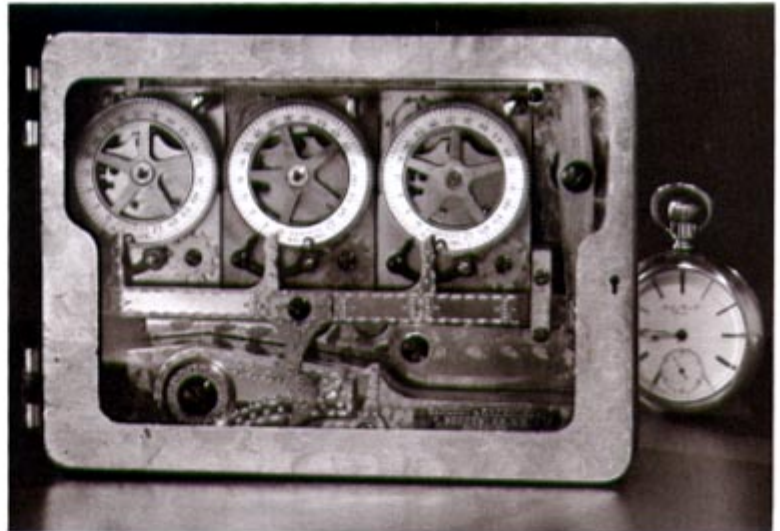
The entire mechanism is shock proof and dust proof, and there is a hard plastic shield behind the dials to protect the inner mechanism while the cover is off. There is no way to start the working of the Time Lock except by deliberately winding the mainspring. No shock will accidentally set the time mechanism.

There are either two or three separate time mechanisms in the Time Lock each of which is capable of opening the lock alone. More than one mechanism are used because the locking device is so effective that if the time mechanism should fail, the safe positively will not open. The other time mechanisms are merely back-up defenses in the unlikely event that one time mechanism fails.

A further safety device is the emergency release, which allows you to open the lock should you be locked inside the vault. The release is simply a device connected to the knob on the front of the case. To release the lock simply push the bar in the direction of the arrow and then up.

Safety, strength, reliability; the parts and the whole. All are the results of the integrity for which Sargent & Greenleaf has been known for 115 years.





Early Time Locks from the collection of Harry C. Miller

# Ordering Information

**Specify Model 6253 3 movements**  
**6252 2 movements**

ALL UNITS SUPPLIED WITH:

- DECORATOR FRAME
- 4 SPRINGRIP FASTENERS
- WINDING KEY
- 4 RUBBER MOUNTING WASHERS
- 4 MOUNTING SCREWS





**SARGENT & GREENLEAF, INC.**

ROCHESTER, NEW YORK